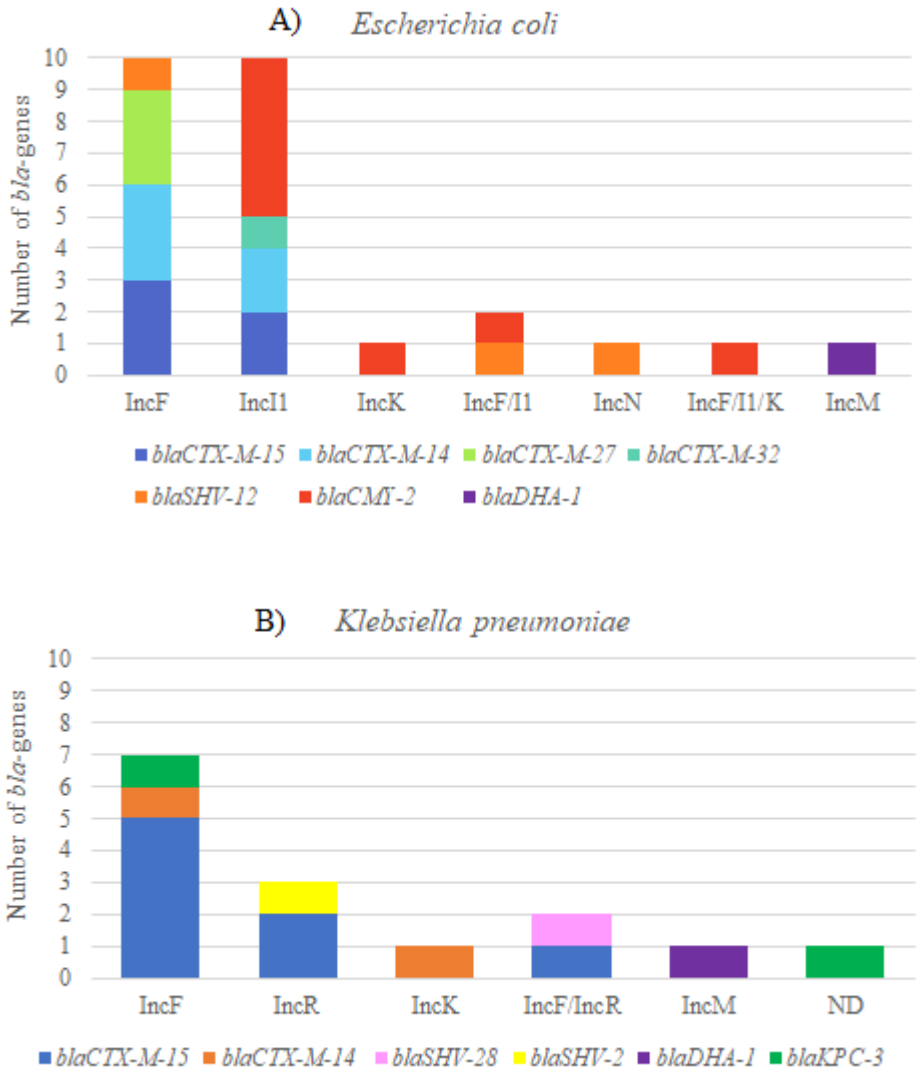
Supplementary material

Supplementary Table 1. Percentages of resistance to different antimicrobial agents in *E. coli* and *K. pneumoniae* strains isolated from faecal and blood samples.

Antimicrobials	*E. coli*		*K. pneumoniae*	
	Faecal Sample n=145 (%)	**Blood culture n=99 (%)**	**Faecal Sample n=12 (%)**	**Blood culture n=103 (%)**
Ampicillin*	58 (40.0)	87 (88.0)	11 (91.7)[a]	102 (99.0)[a]
Co-amoxiclav	9 (6.2)	12 (12.1)	3 (25.0)	7 (6.8)
Piperacillin*	27 (18.6)	62 (62.6)	1 (8.3)	23 (22.3)
Cephalothin*	13 (9.0)	45 (45.5)	4 (33.3)	20 (19.4)
Cefuroxime*	12 (8.3)	20 (20.2)	0	21 (20.4)
Cefoxitin	5 (3.4)	8 (8.1)	2 (16.7)	12 (11.6)
Cefotaxime*	13 (9.0)	20 (20.2)	0	16 (15.5)
Ceftazidime*	9 (6.2)	15 (15.2)	0	15 (14.6)
Cefepime*	3 (2.1)	7 (7.0)	0	9 (8.7)
Aztreonam*	5 (3.4)	13 (13.1)	0	13 (12.6)
Imipenem	0	0	0	2 (1.9)
Ertapenem	0	0	0	4 (3.9)
Gentamicin	12 (8.3)	12 (12.1)	0	6 (5.8)
Tobramycin*	11 (7.6)	18 (18.1)	0	15 (14.5)
Amikacin	0	1 (1.0)	0	5 (4.8)
Cotrimoxazole*	28 (19.3)	43 (43.4)	0	16 (15.5)
Nalidixic Acid*	37 (25.5)	53 (53.5)	0	28 (27.2)
Ciprofloxacin*	17 (11.7)	44 44.4)	0	19 (18.4)

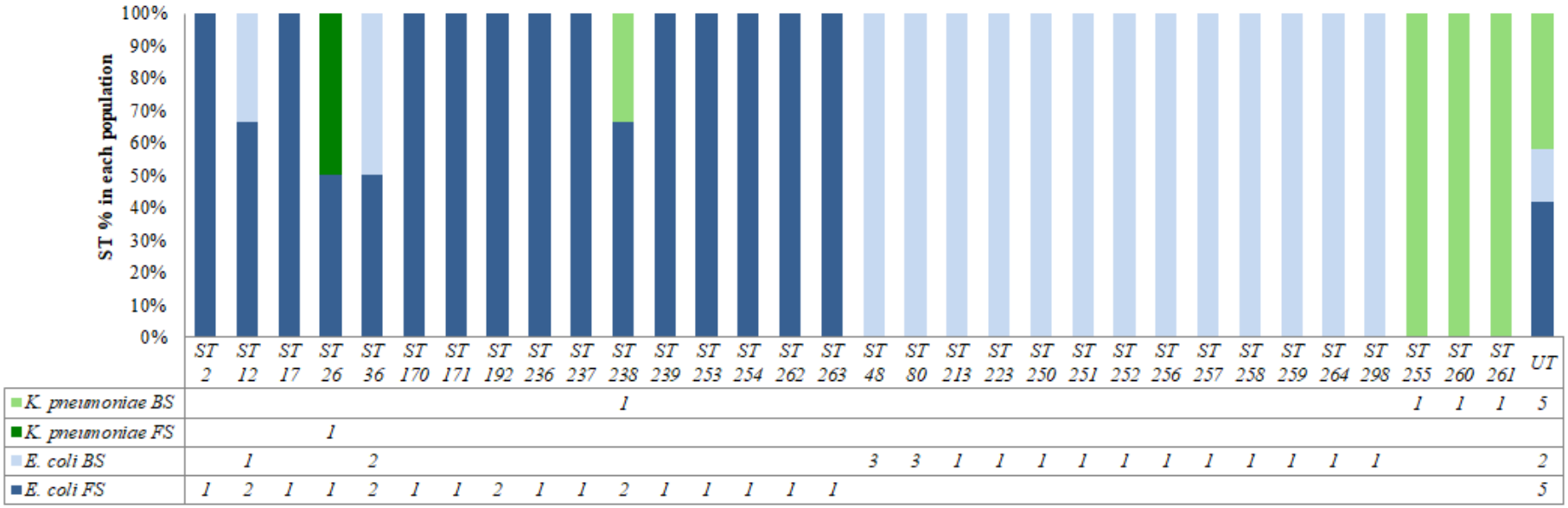
[a] The remaining strains were phenotypically susceptible

*Significant differences between faecal and blood *E. coli* strains ($p<0.05$).



Supplementary Figure 1: Location of beta-lactamase (*bla*) genes detected on plasmids from A) *E. coli* and B) *K. pneumoniae*.

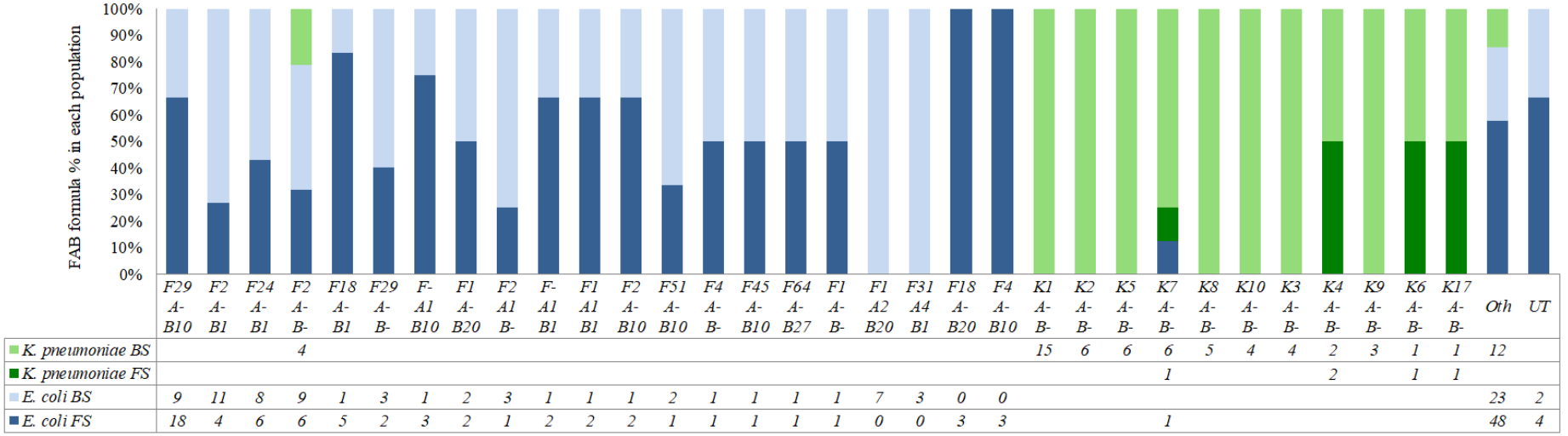
ND, not determined



Supplementary Figure 2. Distribution of IncI1 STs in *E. coli* and *K. pneumoniae* from faecal and blood samples. The graph compares the contribution in percentages of STs in each population and the table below shows the final number of each ST detected.

BS, blood sample; FS, faecal sample; ST, sequence type IncI1 plasmid

UT, untypeable (some of the necessary targets for the typing were not detected)



	F29 A-B10	F2 A-B1	F24 A-B1	F2 A-B-	F18 A-B1	F29 A-B-	F- A1 B10	F1 A- B20	F2 A1 B-	F- A1 B1	F1 A1 B1	F2 A- B10	F51 A- B10	F4 A- B-	F45 A- B10	F64 A- B27	F1 A- B-	F1 A2 B20	F31 A4 B1	F18 A- B20	F4 A- B10	K1 A- B-	K2 A- B-	K5 A- B-	K7 A- B-	K8 A- B-	K10 A- B-	K3 A- B-	K4 A- B-	K9 A- B-	K6 A- B-	K17 A- B-	Oth	UT
K. pneumoniae BS				4																		15	6	6	6	5	4	4	2	3	1	1	12	
K. pneumoniae FS																									1				2		1	1		
E. coli BS	9	11	8	9	1	3	1	2	3	1	1	1	2	1	1	1	1	7	3	0	0												23	2
E. coli FS	18	4	6	6	5	2	3	2	1	2	2	2	1	1	1	1	1	0	0	3	3				1								48	4

Supplementary Figure 3. Distribution of FAB formulas most frequently detected in *E. coli* and *K. pneumoniae* from faecal and blood samples and those shared between populations. The graph compares the contribution in percentage of the FAB formulas in each population and the table below shows the final number of each FAB formula detected.

BS, blood sample; FS, faecal sample; Oth, other FAB formulas

UT, untypeable (some of the necessary targets for the typing were not detected)